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APPLICATION NO.	FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/938,670	08/2	7/2001	Jens Petersen	60117.000007	2509	
7	590	08/11/2004		EXAMINER		
Stanislaus Ak	sman		ISABELLA, DAVID J			
Hunton & Williams Suite 1200				ART UNIT PAPER NUMBER		
1900 K Street,			3738			
Washington, DC 20006				DATE MAILED: 09/11/200	DATE MAILED: 09/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office A-4ing Comment	09/938,670	PETERSEN, ET AL	
Office Action Summary	Examiner	Art Unit	
	DAVID J ISABELLA	3738	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply ply within the statutory minimum of thirty (3 d will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	be timely filed O) days will be considered timely. From the mailing date of this con DONED (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed on <u>02</u> .	<u>June 2004</u> .		
2a) This action is FINAL . 2b) ☑ Thi	is action is non-final.		
3) Since this application is in condition for allows	ance except for formal matters	, prosecution as to the	merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1,2,5,7-40 and 42-47</u> is/are pending	in the application.		
4a) Of the above claim(s) <u>13-40,42 and 43</u> is/	are withdrawn from considerat	tion.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,2,5,7-12 and 44-47</u> is/are rejected			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ier.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance	. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the E	Examiner. Note the attached O	ffice Action or form PTC	D-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. Ints have been received in Appoints documents have been related (PCT Rule 17.2(a)).	lication No ceived in this National S	Stage
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		fail Date mal Patent Application (PTO-	-152)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Other:	Tarana i i i i i i i i i i i i i i i i i i	,

Status of the Claims

Currently the claims 1,2,5,7-12 and 44-47 are pending for consideration. These claims correspond to applicant election of invention of group 1 directed to a hydrogel. Claims 3,4,6 and 41 have been cancelled. Claims 13-40,42 and 43 are withdrawn as being drawn to the non-elected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 46 id rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is directed to a hydrogel and claim 12 contains functional language that the hydrogel may be used as and implantable endoprosthesis. Claim 46 further defines the prosthesis and not the hydrogel. Since the combination of the prosthesis and the hydrogel is not positively claimed, claim 46 fails to further limit the scope of the hydrogel of claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2,5,7-12 and 44-46 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Lim et al (4074039).

Lim et al discloses a bio-stable hydrogel comprising a polyacrylamide including a polymer of acrylamide cross-linked with methylene bis-acrylamide. The range of the molar weight ratios and falls within range as set forth in the claim. Lim, et al is silent as to the ppm of the acrylamide and the methylene bis-acrylamide monomers as is Lim, et al silent to the elastic modulus and the viscosity. Similar to applicant's hydrogel, the gel of Lim, et al is suitable for exposure with tissue. The gel can be molded to be shaped to reinforce and augment soft tissue defects or be used as a substitute for tubular organs. Clearly the modulus and viscosity of the hydrogel is such that it is suitable for soft tissue applications and would inherently possess physical values of modulus and viscosity within the range as claimed by applicant.

Claim 44, the hydrogel of Lim,et al may be employed as a prosthesis that is capable of being injected into the tissue from a syringe type device.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lim, et al (4074039) as applied to claim1 above, and further in view of Martin (5652274)

The combination of a hydrogel and active substances, including cells for cellular engraftment is taught by Martin. Lim et al utilizes hydrogel to augment soft tissue damage, to treat the tissues with the combination of hydrogel and cells to promote effective healing would have been obvious from the teachings of Martin.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J ISABELLA whose telephone number is 703-308-3060. The examiner can normally be reached on MONDAY-FRIDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CORRINE MCDERMOTT can be reached on 703-308-2111. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ĐAVID J ISABELLA Primary Examiner Art Unit 3738

DJI August d, 2004